

November-15-12 11:44:19 AM

**Item ID:** 647.1811

**Accept**

**\*N900040100\***

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

**Item Name:** Spacer

**Start Date:** 11/15/12      **Start Qty:** 6.00

\*6\*

**Cust Item ID:**

**Required Date:** 12/07/12      **Req'd Qty:** 6.00

\*6\*

**Customer:**

**Reference:**

Run Start \*NR1\*

Approvals: Process Plan: MLJ Date: 12-11-16

Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

OC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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**Draw Nbr**

Revision Nbr

647.1800

N/C

0.00

110

**\*110\***

0.00

## Waterjet

FLOW CNC Waterjet

## Memo

1-Cut as per Dwg

Dwg Rev: NIC

Prog Rev: N/C

2-Deburr if necessary

0.00

120

\*120\*

0.00

QC

## Quality Control

## Memo

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions  <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other _____ _____ _____ _____
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# Work Order ID 93341

\*93341\*

Page 2

November-15-12 11:44:19 AM

Item ID: 647.1811

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Spacer

Start Date: 11/15/12 Start Qty: 6.00

\*6\*

Cust Item ID:

Required Date: 12/07/12 Req'd Qty: 6.00

\*6\*

Customer:

Reference:

Run Start \*NR1\*

Approvals: Process Plan: Date: Tooling: Date:

Stop \*NR2\*

QC: Date: SPC (Y/N): Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* QC Quality Control	QC8- Inspect parts - second check  Memo	0.00 0.00				6			
140 *140* Outsource4 Outsource process - Anodize	Outsource process-Anodize per QSI017 4.1.10.1  Memo ISSUE P/O: 18504 HARD ANODIZE, COLOR BLACK AS PER DWG.(SEE NOTE 2)	0.00 0.00							PL 12-11-20
150 *150* Packaging Packaging	Receive & Inspect for Damage & Mat'l Certs  Memo	0.00 0.00							PL 12/18 (6)

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

**FAULT CATEGORY**

Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Misabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

**\*93341\***

November-15-12 11:44:19 AM

**\*N900040100\***

Stop \*NS2\*

**\*6\***

**\*6\***

**Reference:**

Run Start \*NR1\*

Stop \*NR2\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

160

QC5- Inspect part completeness to step on W/O

0.00

\* 160 \*

QC

## Memo

0.00

## Quality Control

170

0.00

\*170\*

SprayPaint

## Spray Painting

## Memo

0.00

PRIME IAW MIL-P-23377J TYPE1 CLASS N AS PER DWG. (SEE NOTE 2)

CARDINAL 4860-50 PRIMER BATCH: 123693

180

### QC14- Inspect Spray Paint

0.00

\*180\*

QC

## Memo

0.00

## Quality Control

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY			
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other

# Work Order ID 93341

\*93341\*

Page 4

November-15-12 11:44:19 AM

Item ID: 647.1811

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Spacer

Start Date: 11/15/12

Start Qty: 6.00

\*6\*

Cust Item ID:

Required Date: 12/07/12

Req'd Qty: 6.00

\*6\*

Customer:

Reference:

Run Start

\*NR1\*

Stop

\*NR2\*

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

190

Identify as per dwg & Stock Location:

139C

0.00

\*190\*

Packaging

Memo

0.00

Packaging

\*\*\*IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV\*\*\*

12/3/12 (6)

200

QC21- Final Inspection - Work Order Release

0.00

\*200\*

QC

Memo

0.00

Quality Control

12/1/12

MF  
12-01-09

NCR: Yes / No

## WORK ORDER NON-CONFORMANCE / UPDATE

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data <input type="checkbox"/>									
Equip/Tooling <input type="checkbox"/>									
Operator <input type="checkbox"/>									
Material <input type="checkbox"/>									
Setup <input type="checkbox"/>									
Other <input type="checkbox"/>									
Process <input type="checkbox"/>									
Supplier <input type="checkbox"/>									
Training <input type="checkbox"/>									
Unapproved <input type="checkbox"/>									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other



# Picklist Print

November-15-12 11:44:18 AM

Page 1

Work Order ID: 93341

Parent Item: 647.1811

Parent Item Name: Spacer

Start Date: 11/15/12

Required Date: 12/07/12

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP REV:A 12.10.03 NEW ISSUE DD VERF:JFS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M2024T3S.063 2024-T3 .063 sheet		Purchased	No			110	sf	244.4200	0.0252	0.1591579 0.2			Jm 12-11-25
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				MAT022		244.42							
				119916		0.1							
				121197		16.32							
				123654		36			123654				
				123701		192							

NCR: Yes / No

**WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order: _____  Part No. _____  NCR No. _____				<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
<b>Root Cause</b>	<b>Date</b>	<b>Step</b>	<b>Qty</b>	<b>Description of work order update or Non-conformance</b>	<b>Initial Chief Eng</b>	<b>Action Description</b>	<b>Sign &amp; Date</b>	<b>Verification</b>	<b>QC Inspector</b>		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

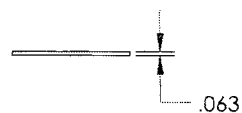
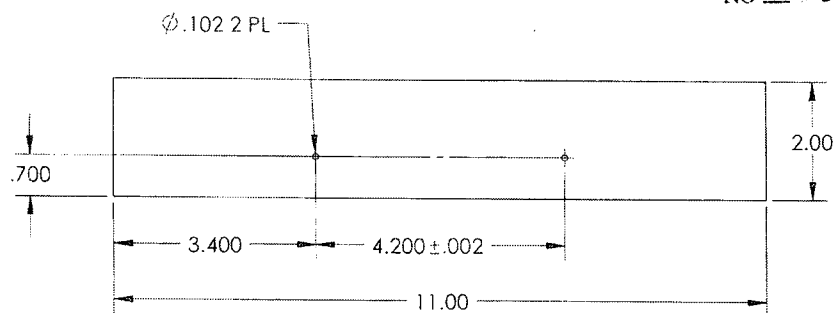
FAULT CATEGORY			
<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled  <input type="checkbox"/> Other



NOTES:

1. MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK;  
CARDINAL 4860-50 PRETREATMENT PRIMER  
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

STANDARD  
REVISION  
ENGINEER  
UNCONTROLLED COPY  
SUBJECT TO CHANGE  
WITH NOTICE  
WORK ORDER  
NO 93341 ML5  
12-11-16



647.1810

QTY	FIG #	PART #	DESCRIPTION	MATL	SPEC.
		647.1818	NOSE DOOR SPACER	△	△
		647.1817	SUPPORT, RH	△	△
		647.1816	SUPPORT, LH	△	△
		647.1815	GUSSET, RH	△	△
		647.1814	GUSSET, LH	△	△
		647.1813	ANGLE	△	△
		647.1812	SHIM	△	△
		647.1811	SPACER	△	△
		647.1810	NOSE DOOR DOUBLER	△	△
PARTS LIST					
APICAL INDUSTRIES					
2608 TEMPLE HEIGHTS DR.					
OCEANSIDE, CA. 92056-3512 (760)724-5300					
SHEETMETAL					
UNLESS OTHERWISE SPECIFIED					
DIMENSIONS ARE IN INCHES					
TOLERANCES ARE:					
FRACTIONS DECIMALS ±.01					
ANGLES ±.5°					
SCALE: NONE					
SHEET 1 OF 7					

.063

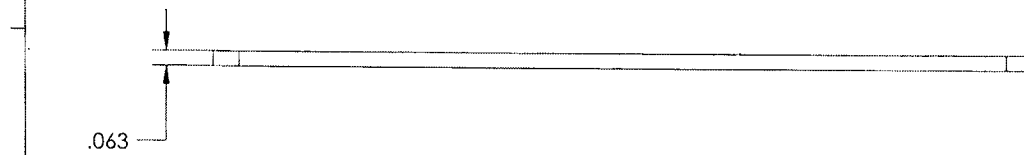
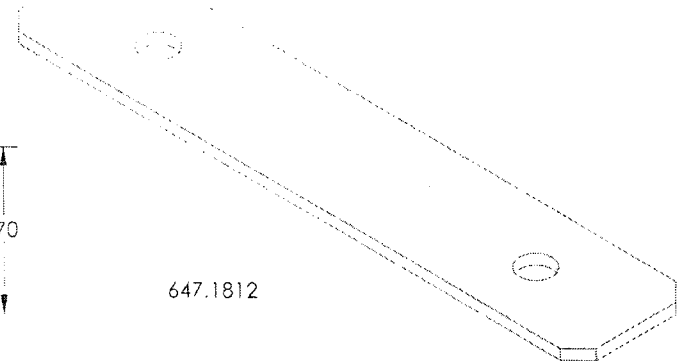
APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

SHEETMETAL

SIZE B	GRADE CODE 07M26	DWG. NO. 647.1800	REV. N/C
SCALE: NONE		SHEET 2 OF 7	

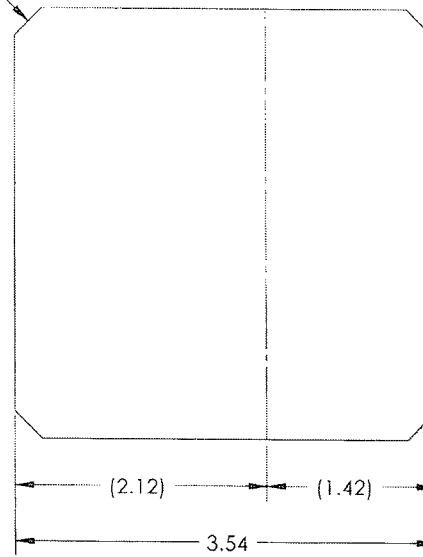
Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and features:

- Top surface:  $.11 \times 45.0^\circ$  4 PL
- Top surface:  $\varnothing .20$  THRU 2 PL
- Right side:  $.70$  (overall height),  $.350$  (height of the lower section)
- Bottom surface:  $3.46$  (overall width)
- Internal dimensions:  $.603$  (width of the upper section),  $2.250 \pm .002$  (width of the lower section)

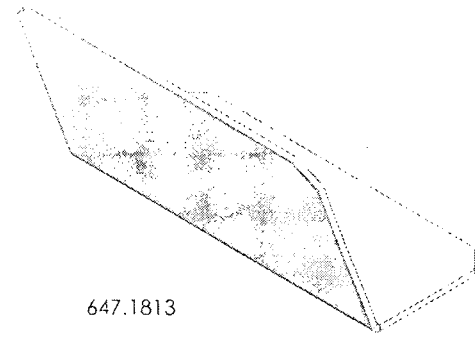
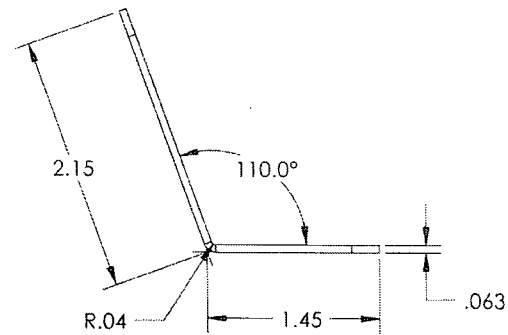
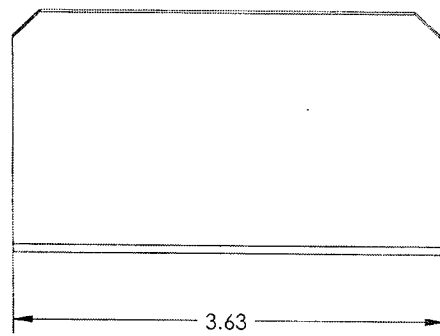
[illegible]

93341

.23 X 45.0°  
4 PL



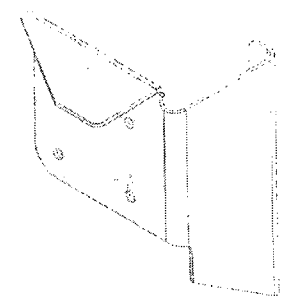
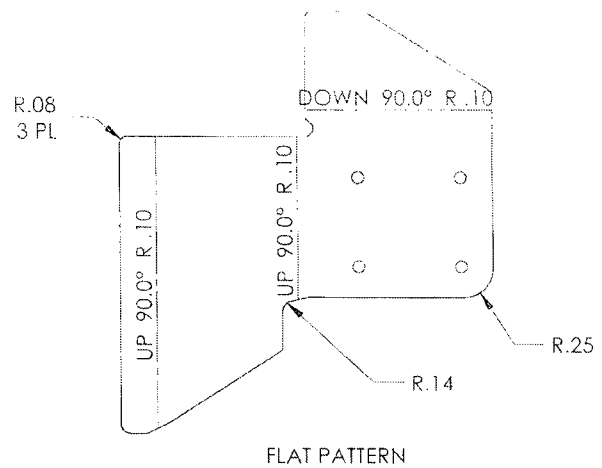
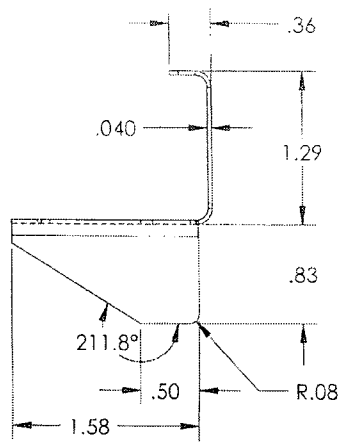
FLAT PATTERN



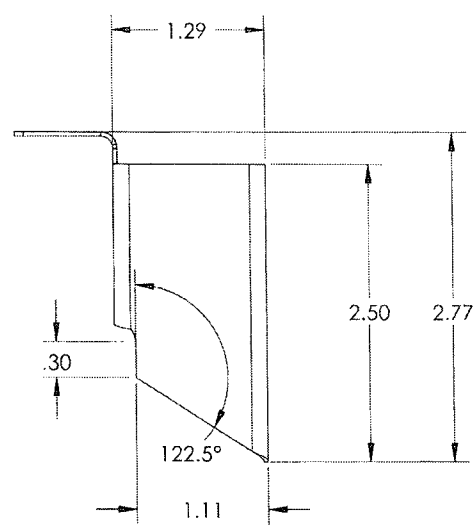
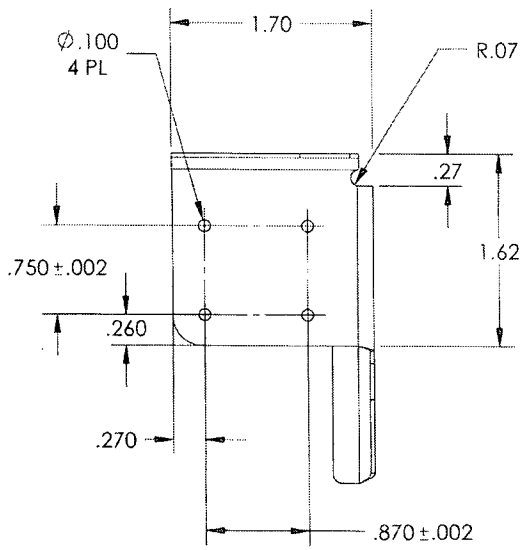
647.1813

ORIGINAL DATE 2/02/04		647.1800	
DRAWN BY P. BRAY	CHECKED P. BRAY	APICAL INDUSTRIES	
DESIGNED BY P. BRAY		2608 TEMPLE HEIGHTS DR OCEANSIDE, CA. 92056-3812 (760) 724-5300	
DRAWING APPROVAL P. BRAY		SHEETMETAL	
DATE OF 02/02/04		REV 1/C	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS 1/16 2 PLACES DECIMALS 1/32 3 PLACES DECIMALS 1/64 4 PLACES 1/128		SCALE: NONE	SHEET 4 OF 7

93341



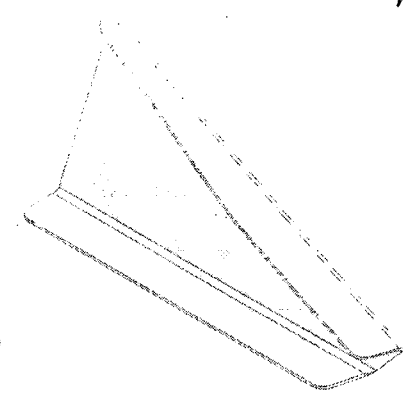
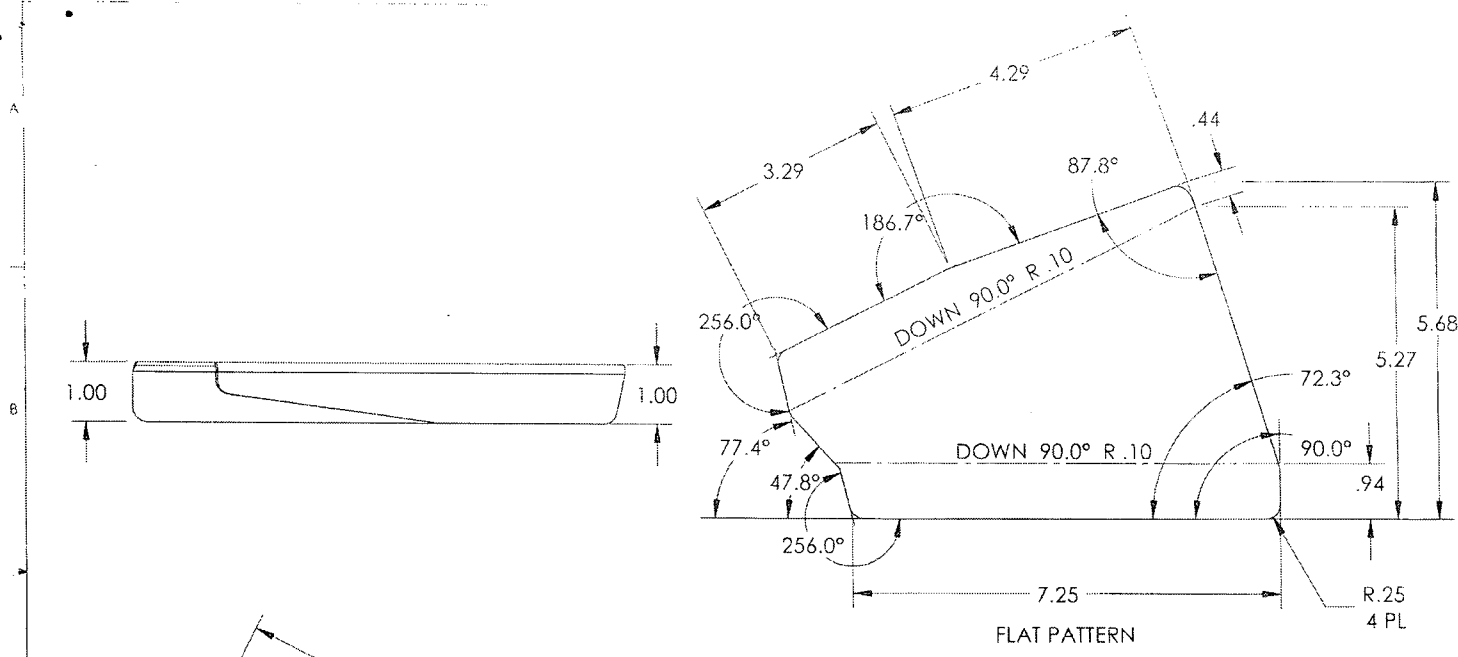
647.1814 SHOWN  
647.1815 OPPOSITE



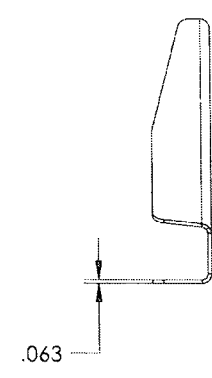
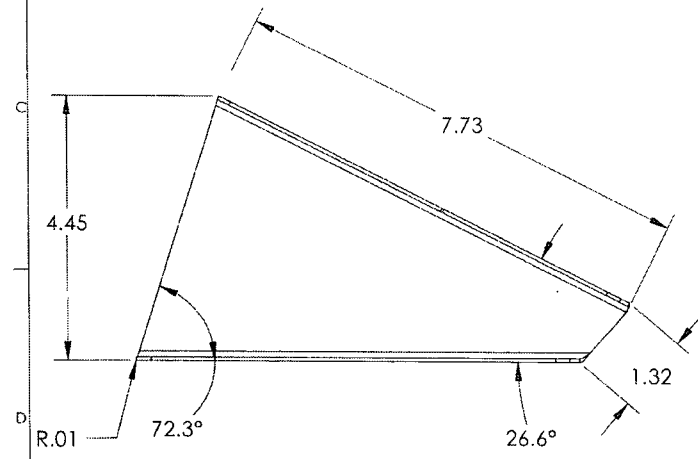
<small>           ORIGINAL DATE            MODIFIED BY            DESIGNED BY            CHECKED BY            DRAWING APPROVAL            P. BRAVO            DESIGN            CONTRACT NO.         </small>		<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
<small>           UNLESS OTHERWISE SPECIFIED            DIMENSIONS ARE IN INCHES            TOLERANCES ARE:            2 PLACE DECIMALS ± .01            3 PLACE DECIMALS ± .005            ANGLES ± .1°         </small>		<small>SHEET CODE</small> <b>B</b>	<small>DWG. NO.</small> <b>647.1800</b>
<small>SCALE: NONE</small>		<small>REV.</small> <b>N/C</b>	
<small>SHEET 5 OF 7</small>		<small>SHEETMETAL</small>	



93341



647.1816 SHOWN  
647.1817 OPPOSITE



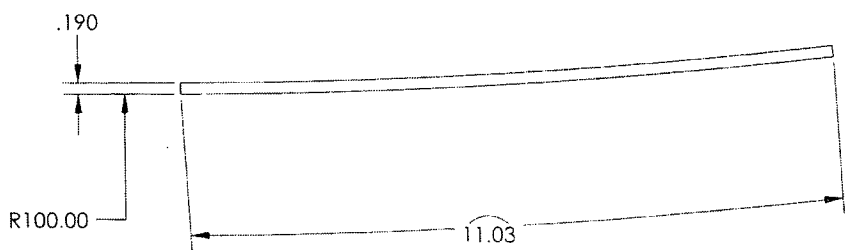
CONSTRUCTION DATA		APICAL INDUSTRIES	
DESIGNED BY	CHUCKIEP	2608 TEMPLE HEIGHTS DR.	
LOCATED BY	P. HANNO	OCEANSIDE, CA. 92056-3512 (760) 724-5300	
DATE OF APPROVAL		SHEETMETAL	
BY			
DATE			
SHEET METALWORK SPECIFICATIONS		SIZE	REV
DRAWING SCALE: 1" = 1"		6 07/14/26	647.1800
TOLERANCES: ±.01		SCALE: NONE	SHEET 6 OF 7
3 PLATE DIMENSIONS: ±.01			
AIRVAL: 1/8"			

9334/

A  
B  
C  
D



647.1818



ORIGINAL DATE 10/14/14		APICAL INDUSTRIES	
DRAWN BY P. BRAYNO		2608 TEMPLE HEIGHTS DR.	
CHECKED BY P. BRAYNO		OCEANSIDE, CA 92056-3512 (760) 724-5300	
DRAWING APPROVAL P. BRAYNO		SHEETMETAL	
DATE 07/12/16		DWG NO 647.1800	REV N/C
TOLERANCES UNLESS SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS 1/16" 1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/8" 1 1/4" 1 3/8" 1 1/2" 1 5/8" 1 3/4" 1 7/8" 2" 2 1/8" 2 1/4" 2 3/8" 2 1/2" 2 5/8" 2 3/4" 2 7/8" 3" 3 1/8" 3 1/4" 3 3/8" 3 1/2" 3 5/8" 3 3/4" 3 7/8" 4" 4 1/8" 4 1/4" 4 3/8" 4 1/2" 4 5/8" 4 3/4" 4 7/8" 5" 5 1/8" 5 1/4" 5 3/8" 5 1/2" 5 5/8" 5 3/4" 5 7/8" 6" 6 1/8" 6 1/4" 6 3/8" 6 1/2" 6 5/8" 6 3/4" 6 7/8" 7" 7 1/8" 7 1/4" 7 3/8" 7 1/2" 7 5/8" 7 3/4" 7 7/8" 8" 8 1/8" 8 1/4" 8 3/8" 8 1/2" 8 5/8" 8 3/4" 8 7/8" 9" 9 1/8" 9 1/4" 9 3/8" 9 1/2" 9 5/8" 9 3/4" 9 7/8" 10" 10 1/8" 10 1/4" 10 3/8" 10 1/2" 10 5/8" 10 3/4" 10 7/8" 11" 11 1/8" 11 1/4" 11 3/8" 11 1/2" 11 5/8" 11 3/4" 11 7/8" 12" 12 1/8" 12 1/4" 12 3/8" 12 1/2" 12 5/8" 12 3/4" 12 7/8" 13" 13 1/8" 13 1/4" 13 3/8" 13 1/2" 13 5/8" 13 3/4" 13 7/8" 14" 14 1/8" 14 1/4" 14 3/8" 14 1/2" 14 5/8" 14 3/4" 14 7/8" 15" 15 1/8" 15 1/4" 15 3/8" 15 1/2" 15 5/8" 15 3/4" 15 7/8" 16" 16 1/8" 16 1/4" 16 3/8" 16 1/2" 16 5/8" 16 3/4" 16 7/8" 17" 17 1/8" 17 1/4" 17 3/8" 17 1/2" 17 5/8" 17 3/4" 17 7/8" 18" 18 1/8" 18 1/4" 18 3/8" 18 1/2" 18 5/8" 18 3/4" 18 7/8" 19" 19 1/8" 19 1/4" 19 3/8" 19 1/2" 19 5/8" 19 3/4" 19 7/8" 20" 20 1/8" 20 1/4" 20 3/8" 20 1/2" 20 5/8" 20 3/4" 20 7/8" 21" 21 1/8" 21 1/4" 21 3/8" 21 1/2" 21 5/8" 21 3/4" 21 7/8" 22" 22 1/8" 22 1/4" 22 3/8" 22 1/2" 22 5/8" 22 3/4" 22 7/8" 23" 23 1/8" 23 1/4" 23 3/8" 23 1/2" 23 5/8" 23 3/4" 23 7/8" 24" 24 1/8" 24 1/4" 24 3/8" 24 1/2" 24 5/8" 24 3/4" 24 7/8" 25" 25 1/8" 25 1/4" 25 3/8" 25 1/2" 25 5/8" 25 3/4" 25 7/8" 26" 26 1/8" 26 1/4" 26 3/8" 26 1/2" 26 5/8" 26 3/4" 26 7/8" 27" 27 1/8" 27 1/4" 27 3/8" 27 1/2" 27 5/8" 27 3/4" 27 7/8" 28" 28 1/8" 28 1/4" 28 3/8" 28 1/2" 28 5/8" 28 3/4" 28 7/8" 29" 29 1/8" 29 1/4" 29 3/8" 29 1/2" 29 5/8" 29 3/4" 29 7/8" 30" 30 1/8" 30 1/4" 30 3/8" 30 1/2" 30 5/8" 30 3/4" 30 7/8" 31" 31 1/8" 31 1/4" 31 3/8" 31 1/2" 31 5/8" 31 3/4" 31 7/8" 32" 32 1/8" 32 1/4" 32 3/8" 32 1/2" 32 5/8" 32 3/4" 32 7/8" 33" 33 1/8" 33 1/4" 33 3/8" 33 1/2" 33 5/8" 33 3/4" 33 7/8" 34" 34 1/8" 34 1/4" 34 3/8" 34 1/2" 34 5/8" 34 3/4" 34 7/8" 35" 35 1/8" 35 1/4" 35 3/8" 35 1/2" 35 5/8" 35 3/4" 35 7/8" 36" 36 1/8" 36 1/4" 36 3/8" 36 1/2" 36 5/8" 36 3/4" 36 7/8" 37" 37 1/8" 37 1/4" 37 3/8" 37 1/2" 37 5/8" 37 3/4" 37 7/8" 38" 38 1/8" 38 1/4" 38 3/8" 38 1/2" 38 5/8" 38 3/4" 38 7/8" 39" 39 1/8" 39 1/4" 39 3/8" 39 1/2" 39 5/8" 39 3/4" 39 7/8" 40" 40 1/8" 40 1/4" 40 3/8" 40 1/2" 40 5/8" 40 3/4" 40 7/8" 41" 41 1/8" 41 1/4" 41 3/8" 41 1/2" 41 5/8" 41 3/4" 41 7/8" 42" 42 1/8" 42 1/4" 42 3/8" 42 1/2" 42 5/8" 42 3/4" 42 7/8" 43" 43 1/8" 43 1/4" 43 3/8" 43 1/2" 43 5/8" 43 3/4" 43 7/8" 44" 44 1/8" 44 1/4" 44 3/8" 44 1/2" 44 5/8" 44 3/4" 44 7/8" 45" 45 1/8" 45 1/4" 45 3/8" 45 1/2" 45 5/8" 45 3/4" 45 7/8" 46" 46 1/8" 46 1/4" 46 3/8" 46 1/2" 46 5/8" 46 3/4" 46 7/8" 47" 47 1/8" 47 1/4" 47 3/8" 47 1/2" 47 5/8" 47 3/4" 47 7/8" 48" 48 1/8" 48 1/4" 48 3/8" 48 1/2" 48 5/8" 48 3/4" 48 7/8" 49" 49 1/8" 49 1/4" 49 3/8" 49 1/2" 49 5/8" 49 3/4" 49 7/8" 50" 50 1/8" 50 1/4" 50 3/8" 50 1/2" 50 5/8" 50 3/4" 50 7/8" 51" 51 1/8" 51 1/4" 51 3/8" 51 1/2" 51 5/8" 51 3/4" 51 7/8" 52" 52 1/8" 52 1/4" 52 3/8" 52 1/2" 52 5/8" 52 3/4" 52 7/8" 53" 53 1/8" 53 1/4" 53 3/8" 53 1/2" 53 5/8" 53 3/4" 53 7/8" 54" 54 1/8" 54 1/4" 54 3/8" 54 1/2" 54 5/8" 54 3/4" 54 7/8" 55" 55 1/8" 55 1/4" 55 3/8" 55 1/2" 55 5/8" 55 3/4" 55 7/8" 56" 56 1/8" 56 1/4" 56 3/8" 56 1/2" 56 5/8" 56 3/4" 56 7/8" 57" 57 1/8" 57 1/4" 57 3/8" 57 1/2" 57 5/8" 57 3/4" 57 7/8" 58" 58 1/8" 58 1/4" 58 3/8" 58 1/2" 58 5/8" 58 3/4" 58 7/8" 59" 59 1/8" 59 1/4" 59 3/8" 59 1/2" 59 5/8" 59 3/4" 59 7/8" 60" 60 1/8" 60 1/4" 60 3/8" 60 1/2" 60 5/8" 60 3/4" 60 7/8" 61" 61 1/8" 61 1/4" 61 3/8" 61 1/2" 61 5/8" 61 3/4" 61 7/8" 62" 62 1/8" 62 1/4" 62 3/8" 62 1/2" 62 5/8" 62 3/4" 62 7/8" 63" 63 1/8" 63 1/4" 63 3/8" 63 1/2" 63 5/8" 63 3/4" 63 7/8" 64" 64 1/8" 64 1/4" 64 3/8" 64 1/2" 64 5/8" 64 3/4" 64 7/8" 65" 65 1/8" 65 1/4" 65 3/8" 65 1/2" 65 5/8" 65 3/4" 65 7/8" 66" 66 1/8" 66 1/4" 66 3/8" 66 1/2" 66 5/8" 66 3/4" 66 7/8" 67" 67 1/8" 67 1/4" 67 3/8" 67 1/2" 67 5/8" 67 3/4" 67 7/8" 68" 68 1/8" 68 1/4" 68 3/8" 68 1/2" 68 5/8" 68 3/4" 68 7/8" 69" 69 1/8" 69 1/4" 69 3/8" 69 1/2" 69 5/8" 69 3/4" 69 7/8" 70" 70 1/8" 70 1/4" 70 3/8" 70 1/2" 70 5/8" 70 3/4" 70 7/8" 71" 71 1/8" 71 1/4" 71 3/8" 71 1/2" 71 5/8" 71 3/4" 71 7/8" 72" 72 1/8" 72 1/4" 72 3/8" 72 1/2" 72 5/8" 72 3/4" 72 7/8" 73" 73 1/8" 73 1/4" 73 3/8" 73 1/2" 73 5/8" 73 3/4" 73 7/8" 74" 74 1/8" 74 1/4" 74 3/8" 74 1/2" 74 5/8" 74 3/4" 74 7/8" 75" 75 1/8" 75 1/4" 75 3/8" 75 1/2" 75 5/8" 75 3/4" 75 7/8" 76" 76 1/8" 76 1/4" 76 3/8" 76 1/2" 76 5/8" 76 3/4" 76 7/8" 77" 77 1/8" 77 1/4" 77 3/8" 77 1/2" 77 5/8" 77 3/4" 77 7/8" 78" 78 1/8" 78 1/4" 78 3/8" 78 1/2" 78 5/8" 78 3/4" 78 7/8" 79" 79 1/8" 79 1/4" 79 3/8" 79 1/2" 79 5/8" 79 3/4" 79 7/8" 80" 80 1/8" 80 1/4" 80 3/8" 80 1/2" 80 5/8" 80 3/4" 80 7/8" 81" 81 1/8" 81 1/4" 81 3/8" 81 1/2" 81 5/8" 81 3/4" 81 7/8" 82" 82 1/8" 82 1/4" 82 3/8" 82 1/2" 82 5/8" 82 3/4" 82 7/8" 83" 83 1/8" 83 1/4" 83 3/8" 83 1/2" 83 5/8" 83 3/4" 83 7/8" 84" 84 1/8" 84 1/4" 84 3/8" 84 1/2" 84 5/8" 84 3/4" 84 7/8" 85" 85 1/8" 85 1/4" 85 3/8" 85 1/2" 85 5/8" 85 3/4" 85 7/8" 86" 86 1/8" 86 1/4" 86 3/8" 86 1/2" 86 5/8" 86 3/4" 86 7/8" 87" 87 1/8" 87 1/4" 87 3/8" 87 1/2" 87 5/8" 87 3/4" 87 7/8" 88" 88 1/8" 88 1/4" 88 3/8" 88 1/2" 88 5/8" 88 3/4" 88 7/8" 89" 89 1/8" 89 1/4" 89 3/8" 89 1/2" 89 5/8" 89 3/4" 89 7/8" 90" 90 1/8" 90 1/4" 90 3/8" 90 1/2" 90 5/8" 90 3/4" 90 7/8" 91" 91 1/8" 91 1/4" 91 3/8" 91 1/2" 91 5/8" 91 3/4" 91 7/8" 92" 92 1/8" 92 1/4" 92 3/8" 92 1/2" 92 5/8" 92 3/4" 92 7/8" 93" 93 1/8" 93 1/4" 93 3/8" 93 1/2" 93 5/8" 93 3/4" 93 7/8" 94" 94 1/8" 94 1/4" 94 3/8" 94 1/2" 94 5/8" 94 3/4" 94 7/8" 95" 95 1/8" 95 1/4" 95 3/8" 95 1/2" 95 5/8" 95 3/4" 95 7/8" 96" 96 1/8" 96 1/4" 96 3/8" 96 1/2" 96 5/8" 96 3/4" 96 7/8" 97" 97 1/8" 97 1/4" 97 3/8" 97 1/2" 97 5/8" 97 3/4" 97 7/8" 98" 98 1/8" 98 1/4" 98 3/8" 98 1/2" 98 5/8" 98 3/4" 98 7/8" 99" 99 1/8" 99 1/4" 99 3/8" 99 1/2" 99 5/8" 99 3/4" 99 7/8" 100" 100 1/8" 100 1/4" 100 3/8" 100 1/2" 100 5/8" 100 3/4" 100 7/8" 101" 101 1/8" 101 1/4" 101 3/8" 101 1/2" 101 5/8" 101 3/4" 101 7/8" 102" 102 1/8" 102 1/4" 102 3/8" 102 1/2" 102 5/8" 102 3/4" 102 7/8" 103" 103 1/8" 103 1/4" 103 3/8" 103 1/2" 103 5/8" 103 3/4" 103 7/8" 104" 104 1/8" 104 1/4" 104 3/8" 104 1/2" 104 5/8" 104 3/4" 104 7/8" 105" 105 1/8" 105 1/4" 105 3/8" 105 1/2" 105 5/8" 105 3/4" 105 7/8" 106" 106 1/8" 106 1/4" 106 3/8" 106 1/2" 106 5/8" 106 3/4" 106 7/8" 107" 107 1/8" 107 1/4" 107 3/8" 107 1/2" 107 5/8" 107 3/4" 107 7/8" 108" 108 1/8" 108 1/4" 108 3/8" 108 1/2" 108 5/8" 108 3/4" 108 7/8" 109" 109 1/8" 109 1/4" 109 3/8" 109 1/2" 109 5/8" 109 3/4" 109 7/8" 110" 110 1/8" 110 1/4" 110 3/8" 110 1/2" 110 5/8" 110 3/4" 110 7/8" 111" 111 1/8" 111 1/4" 111 3/8" 111 1/2" 111 5/8" 111 3/4" 111 7/8" 112" 112 1/8" 112 1/4" 112 3/8" 112 1/2" 112 5/8" 112 3/4" 112 7/8" 113" 113 1/8" 113 1/4" 113 3/8" 113 1/2" 113 5/8" 113 3/4" 113 7/8" 114" 114 1/8" 114 1/4" 114 3/8" 114 1/2" 114 5/8" 114 3/4" 114 7/8" 115" 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3/4" 129 7/8" 130" 130 1/8" 130 1/4" 130 3/8" 130 1/2" 130 5/8" 130 3/4" 130 7/8" 131" 131 1/8" 131 1/4" 131 3/8" 131 1/2" 131 5/8" 131 3/4" 131 7/8" 132" 132 1/8" 132 1/4" 132 3/8" 132 1/2" 132 5/8" 132 3/4" 132 7/8" 133" 133 1/8" 133 1/4" 133 3/8" 133 1/2" 133 5/8" 133 3/4" 133 7/8" 134" 134 1/8" 134 1/4" 134 3/8" 134 1/2" 134 5/8" 134 3/4" 134 7/8" 135" 135 1/8" 135 1/4" 135 3/8" 135 1/2" 135 5/8" 135 3/4" 135 7/8" 136" 136 1/8" 136 1/4" 136 3/8" 136 1/2" 136 5/8" 136 3/4" 136 7/8" 137" 137 1/8" 137 1/4" 137 3/8" 137 1/2" 137 5/8" 137 3/4" 137 7/8" 138" 138 1/8" 138 1/4" 138 3/8" 138 1/2" 138 5/8" 138 3/4" 138 7/8" 139" 139 1/8" 139 1/4" 139 3/8" 139 1/2" 139 5/8" 139 3/4" 139 7/8" 140" 140 1/8" 140 1/4" 140 3/8" 140 1/2" 140 5/8" 140 3/4" 140 7/8" 141" 141 1/8" 141 1/4" 141 3/8" 141 1/2" 141 5/8" 141 3/4" 141 7/8" 142" 142 1/8" 142 1/4" 142 3/8" 142 1/2" 142 5/8" 142 3/4" 142 7/8" 143" 143 1/8" 143 1/4" 143 3/8" 143 1/2" 143 5/8" 143 3/4" 143 7/8" 144" 144 1/8" 144 1/4" 144 3/8" 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A.T.G. Industries Inc.  
731, rue Industrielle Rd.  
PLATING DEPARTMENT  
Rockland, On K4K 1T2  
Canada  
Ph: (613) 446-4544  
Fax: (613) 446-4556

### Pack List

Number: 62107

Date: 12-Dec-12

To

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7  
Canada

Ship To

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7  
Canada

Ph: 613-632-5200

Fax: 613-632-1185

Ph: 613-632-5200

Fax: 613-632-1185

Terms	Ship Via																																																						
<table border="1"><thead><tr><th>Quantity</th><th>Description</th></tr></thead><tbody><tr><td>1 lot</td><td>Part: ASST Rev:</td></tr><tr><td></td><td>8 PCS 647.1610</td></tr><tr><td></td><td>5 PCS 647.1612</td></tr><tr><td></td><td>2 PCS 647.1713</td></tr><tr><td></td><td>5 PCS 647.1811</td></tr><tr><td></td><td>1 PC 647.1816</td></tr><tr><td></td><td>1 PC 647.1817</td></tr><tr><td></td><td>8 PCS 647.1818</td></tr><tr><td></td><td>11 PCS 646.3210</td></tr><tr><td></td><td>20 PCS 646.3313</td></tr><tr><td></td><td>10 PCS 646.3717</td></tr><tr><td></td><td>20 PCS 646.3717</td></tr><tr><td></td><td>16 PCS 647.4610</td></tr><tr><td></td><td>10 PCS 649.4811</td></tr><tr><td></td><td>10 PCS 649.4812</td></tr><tr><td></td><td>24 PCS 649.4814</td></tr><tr><td></td><td>30 PCS 649.4815</td></tr><tr><td></td><td>6 PCS 647.7913</td></tr><tr><td></td><td>3 PCS 647.7919</td></tr><tr><td></td><td>10 PCS 647.9010</td></tr><tr><td></td><td>10 PCS 647.9011</td></tr><tr><td></td><td>15 PCS 647.9012</td></tr><tr><td></td><td>40 PCS 647.9013</td></tr><tr><td></td><td>60 PCS 646.9710</td></tr><tr><td colspan="2">HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 Job: 20120768 PO: PO18506 Line:</td></tr><tr><td colspan="2">Certificate of Conformance A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order. ISO 9001 : 2008 REGISTERED ATG SALES-2010 TERMS APPLY DATE: 12/12/12</td></tr></tbody></table>		Quantity	Description	1 lot	Part: ASST Rev:		8 PCS 647.1610		5 PCS 647.1612		2 PCS 647.1713		5 PCS 647.1811		1 PC 647.1816		1 PC 647.1817		8 PCS 647.1818		11 PCS 646.3210		20 PCS 646.3313		10 PCS 646.3717		20 PCS 646.3717		16 PCS 647.4610		10 PCS 649.4811		10 PCS 649.4812		24 PCS 649.4814		30 PCS 649.4815		6 PCS 647.7913		3 PCS 647.7919		10 PCS 647.9010		10 PCS 647.9011		15 PCS 647.9012		40 PCS 647.9013		60 PCS 646.9710	HARD ANODIZE BLACK MIL-A-8625 TYPE III CLASS 2 Job: 20120768 PO: PO18506 Line:		Certificate of Conformance A.T.G. Industries certifies that all items in this shipment are in conformance with all requirements, specifications and drawings referenced in the purchase order. ISO 9001 : 2008 REGISTERED ATG SALES-2010 TERMS APPLY DATE: 12/12/12	
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Number: 62107

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Terms	Ship Via
Quantity	Description
	CERTIFIED SIGNATURE : 
	RECEIVER SIGNATURE : 